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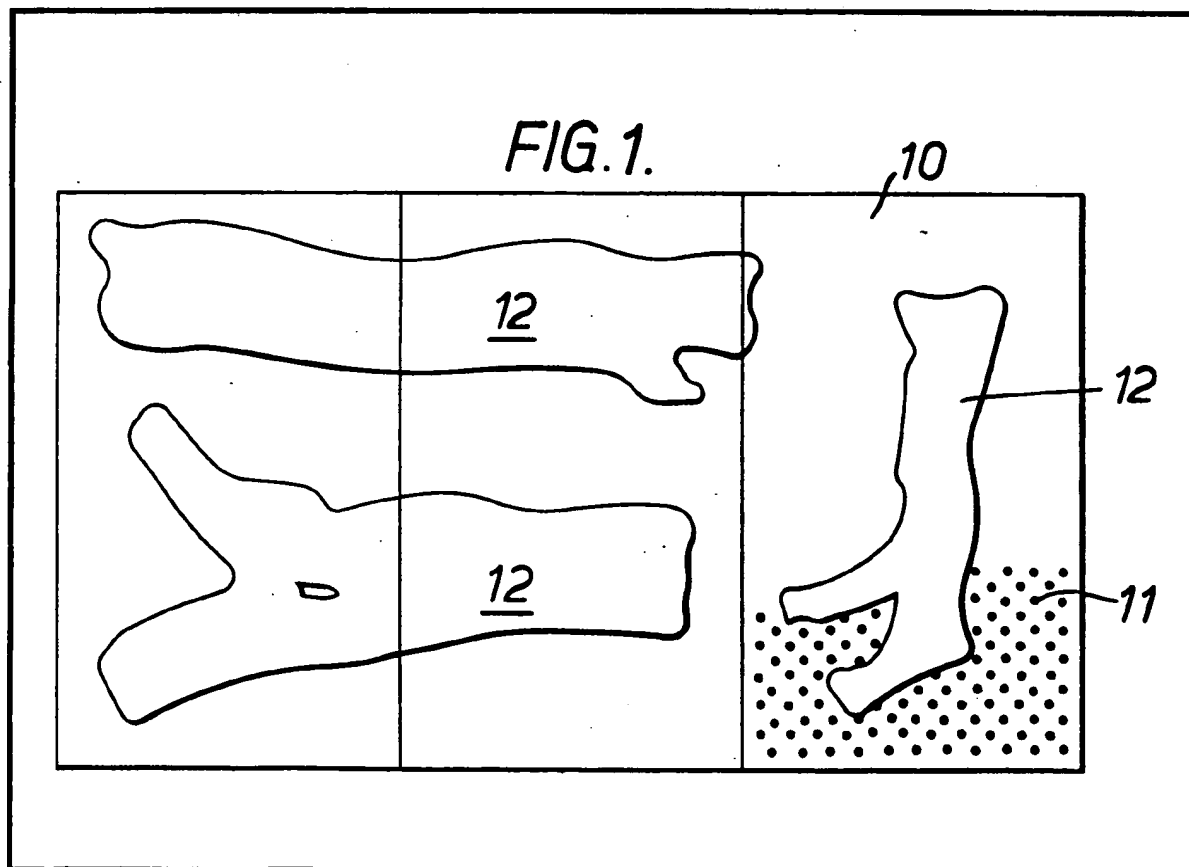
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(54) Gas-fired radiants

(57) A heating plate 10 has a plurality of differently shaped, e.g. log-shaped, protuberances 12. In the areas intermediate the protuberances 12 the plate has a plurality of apertures 11 through which gas can issue for combustion. When the gas is burnt the region containing the apertures 11 becomes bright red whilst the regions 12 assume varying degrees of brightness according to the temperature distribution.



And

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FIG. 1.

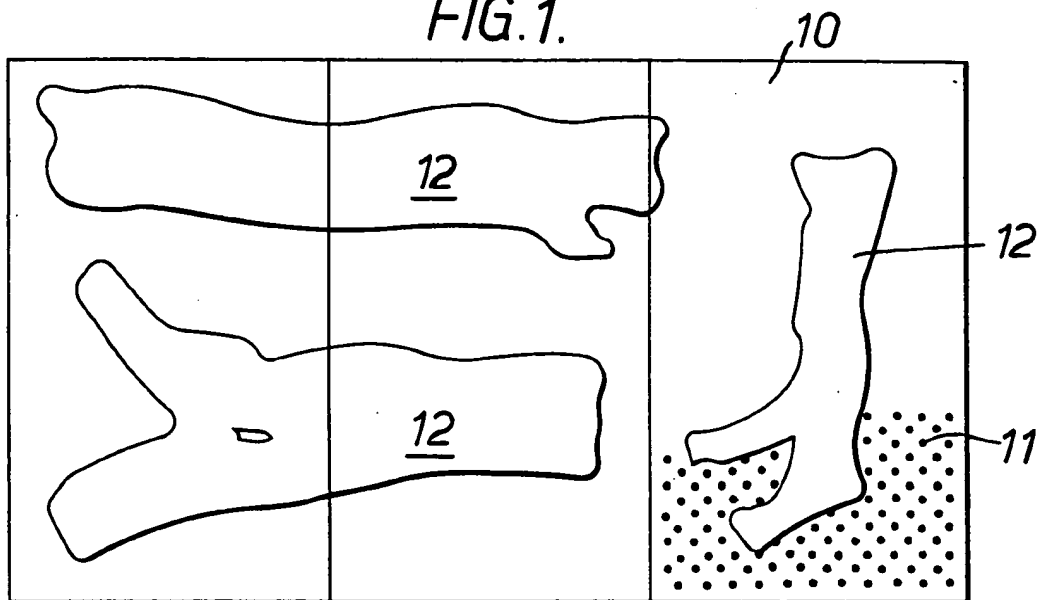


FIG. 2.

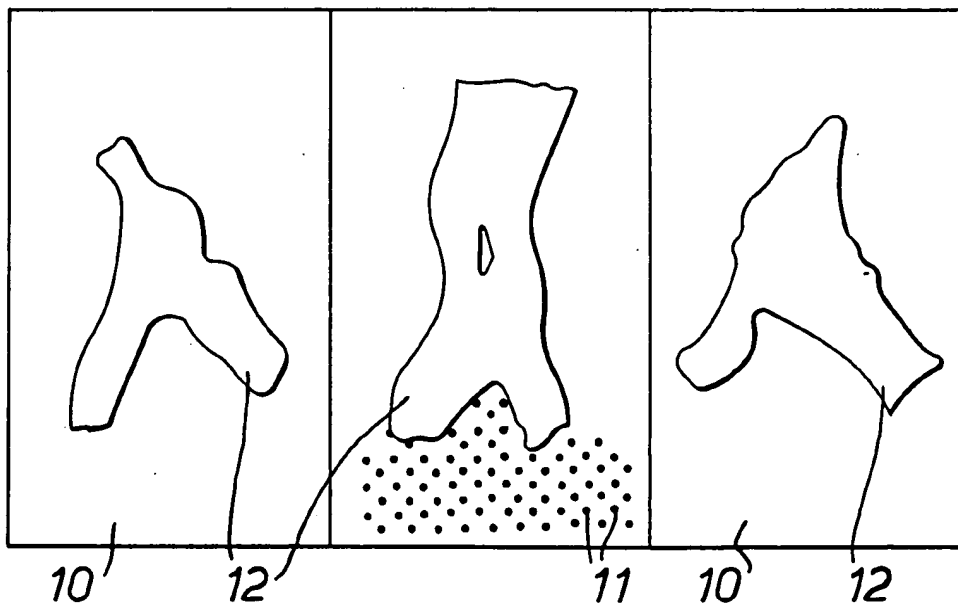


FIG. 3.

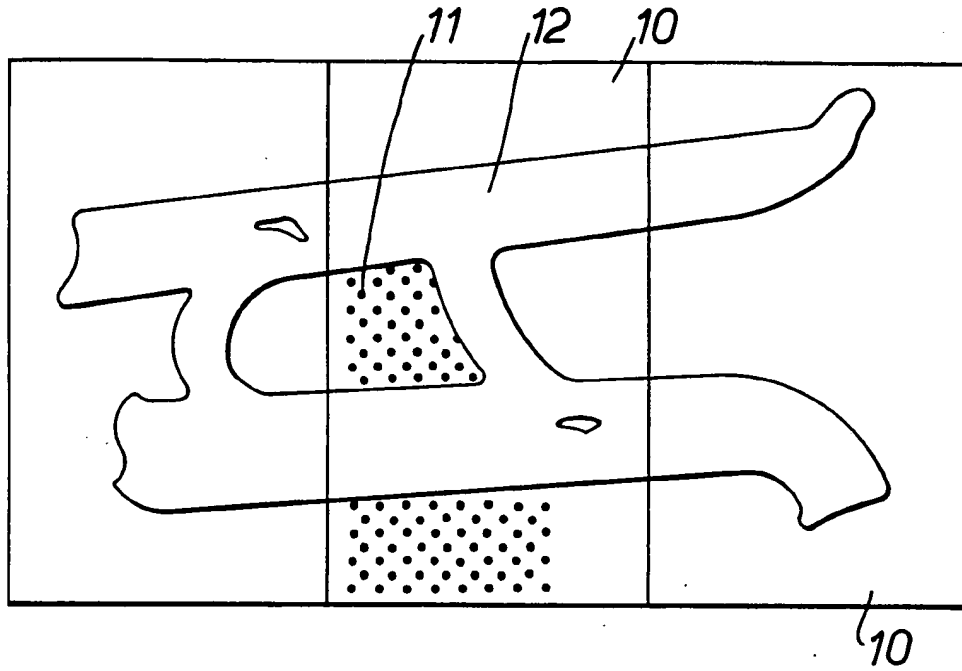


FIG. 4.

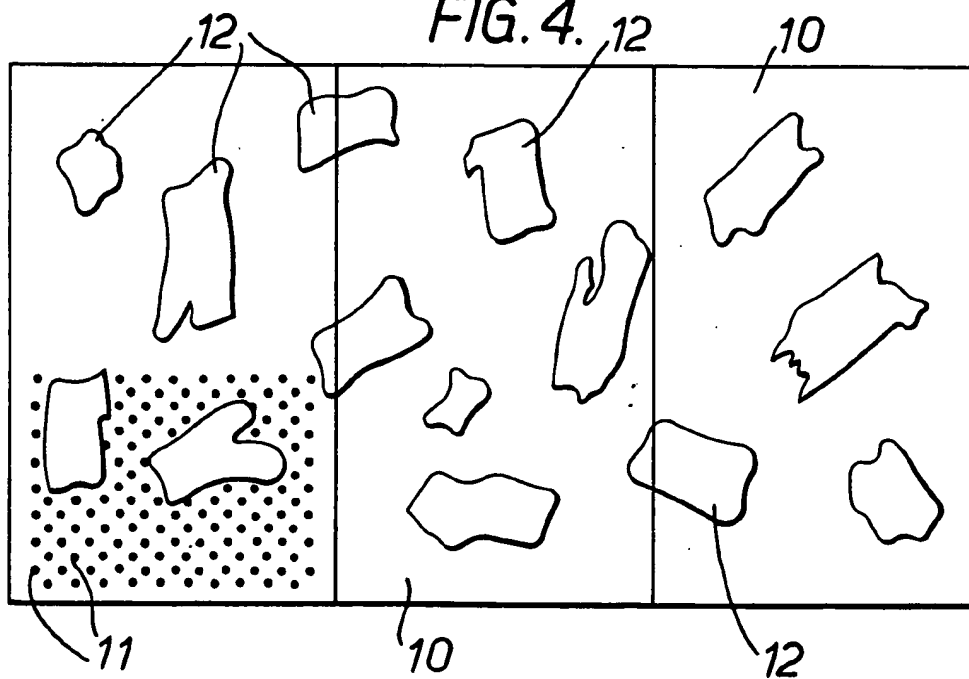


FIG. 5.

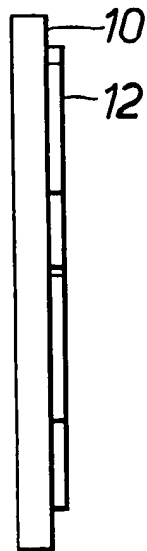
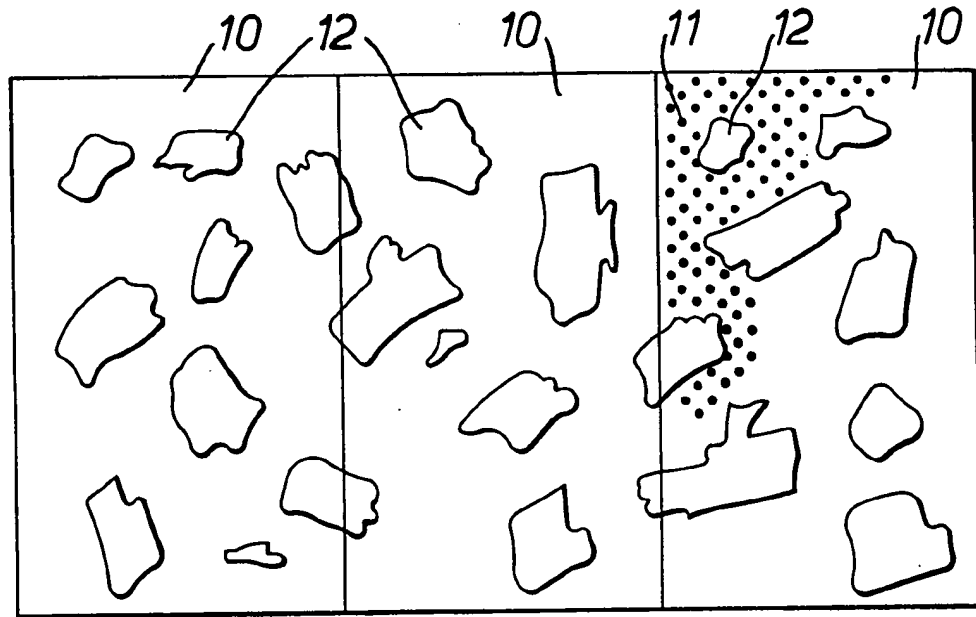


FIG. 6.

## SPECIFICATION

## Improvements in or relating to heating plates

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This invention relates to heating plates.

As is known, use is at present made of gas-heating plates of refractory material which are made incandescent by combustion of gas therein, so that the heat resulting from combustion radiates.

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In view of present commercial requirements, it is essential to obtain some novel variants of these heating plates which are more attractive to the buyer and, besides achieving the object of such plates, i.e. the production of heat, are aesthetically attractive and desirable to the users. Accordingly, an object of the present invention is to produce a heating plate for obtaining optical effects similar to those produced by the combustion of logs in fireplaces. The plate is highly decorative since it can produce effects very similar to a log fire.

25 90  
30 95  
35 100  
According to the present invention there is provided a heating plate of the kind used for gas heating, characterised in that its front surface is formed with a number of fancifully-shaped protuberances free from apertures which are formed in the rest of the plate to facilitate combustion of gas whereby a temperature difference inside the protuberances is obtained when gas is burned resulting in variations in their shades simulating the appearance of a conventional log fire.

40 105  
45 110  
50 115  
55 120  
In one embodiment of the invention the plate is substantially rectangular and at its centre has a number of small apertures in order to bring about the actual combustion in the plate. The plate is formed with some fancifully-shaped protuberances which can give the idea of logs and are free from the typical apertures in such heating plates. The result is that, in the place formed with small apertures, the plate is completely incandescent and thus becomes a very bright red, whereas in the places formed with fanciful protuberances there is a difference in temperature owing to the absence of small apertures and the consequent change in colour due to the temperature in the protuberances, so that the most peripheral region thereof stays at the same intense red colour as the base of the plate but darkens towards the central region of the protuberance which is most remote from the region formed with small apertures.

The result is a change in shades which produce optical effects similar to the burning of logs in a fireplace.

60 The invention will be described now by way of example only with particular reference to the accompanying drawings. In the drawings:

65 *Figures 1, 2, 3, 4 and 5* are plan views of heating plates in accordance with the present invention, and

*Figure 6* is a cross-sectional view of the heating plate shown in Fig. 1.

Fig. 1 shows a heating plate 10 which has a substantially rectangular prismatic shape. Although shown as rectangular the plate could be given any other shape, e.g. round, elliptical or oval.

The front surface of the heating plate 10 has a number of small apertures 11 and fancifully-shaped protuberances 12 similar to the shape of logs.

The protuberances 12 are very thin (see Fig. 6) at the front they have a smooth area free from apertures such as those in the rest of the plate. As already explained, the apertures 11 serve to permit combustion of gas in the heating plate 10. The region containing the apertures 11 becomes a very bright red when the gas burns. The result is that regions 12 assume shades of varying brightness as a result of the temperature difference in the aforementioned region, the colours varying from a bright red at the periphery of protuberances 12 to near-black in the most central region of the protuberance, resulting in optical effects similar to burning logs.

As can be seen, the centre of one of the protuberances (e.g. in Fig. 3) contains a region formed with the same apertures 11 as in the rest of the plate 10. The resulting protuberance 12 has a wide range of shades, thus increasing its decorative effect.

It is clear from the drawings and the description that the present plate provides a simple, efficient construction which can be very easily put into practice, and is thus of undoubted industrial importance.

Of course, the subject of the present description can be varied and modified in detail as required, without the variants altering or modifying the essential features of the model, which are summarised in the following claims.

## CLAIMS

1. A heating plate of the kind used for gas heating, characterised in that its front surface is formed with a number of fancifully-shaped protuberances free from apertures which are formed in the rest of the plate to facilitate combustion of gas whereby a temperature difference inside the protuberances is obtained when gas is burned resulting in variations in their shades simulating the appearance of a conventional log fire.

2. A heating plate substantially as hereinbefore described with reference to and as shown in the accompanying drawings.

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